

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B7/005 H03G3/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B H03G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 286 315 A (MITSUBISHI ELECTRIC CORP) 9 August 1995 (1995-08-09) abstract page 3, line 22 -page 4, line 21 page 5, line 3 - line 20 page 6, line 4 - line 26 page 10, line 17 - line 28 page 11, line 10 -page 13, line 21 page 14, line 1 - line 20 page 19, line 15 - line 22 figures 1-5	1,8,10
A	WO 85/00082 A (PRUTEC LTD) 3 January 1985 (1985-01-03) abstract page 2, paragraph 2 -page 3, paragraph 1 -/--	1,8,10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

23 June 2004

Date of mailing of the international search report

29/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Lopez Márquez, T

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 532 357 B1 (ICHIKAWA YASUFUMI) 11 March 2003 (2003-03-11) abstract column 2, line 20 -column 3, line 6 column 6, line 28 - line 49 column 9, line 17 - line 38 figures 1,5 ---	1,8,10
A	WO 01/31802 A (SAMSUNG ELECTRONICS CO LTD) 3 May 2001 (2001-05-03) abstract page 3, line 18 -page 4, line 5 page 5, line 32 -page 6, line 8 page 7, line 6 - line 22 figures 3,7 -----	1,8,10

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
GB 2286315	A	09-08-1995	JP	3158833 B2		23-04-2001
			JP	7221699 A		18-08-1995
			CA	2139707 A1		28-07-1995
			US	5828953 A		27-10-1998
WO 8500082	A	03-01-1985	AU	3103484 A		11-01-1985
			EP	0151148 A1		14-08-1985
			WO	8500082 A1		03-01-1985
US 6532357	B1	11-03-2003	JP	2000059295 A		25-02-2000
			CN	1250249 A , B		12-04-2000
			GB	2343799 A , B		17-05-2000
WO 0131802	A	03-05-2001	AU	1060301 A		08-05-2001
			WO	0131802 A1		03-05-2001
			KR	2001040179 A		15-05-2001